

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582429

Luminaire Tested: **HC640D010-HM63040827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC640D010-HM63040827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3578.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

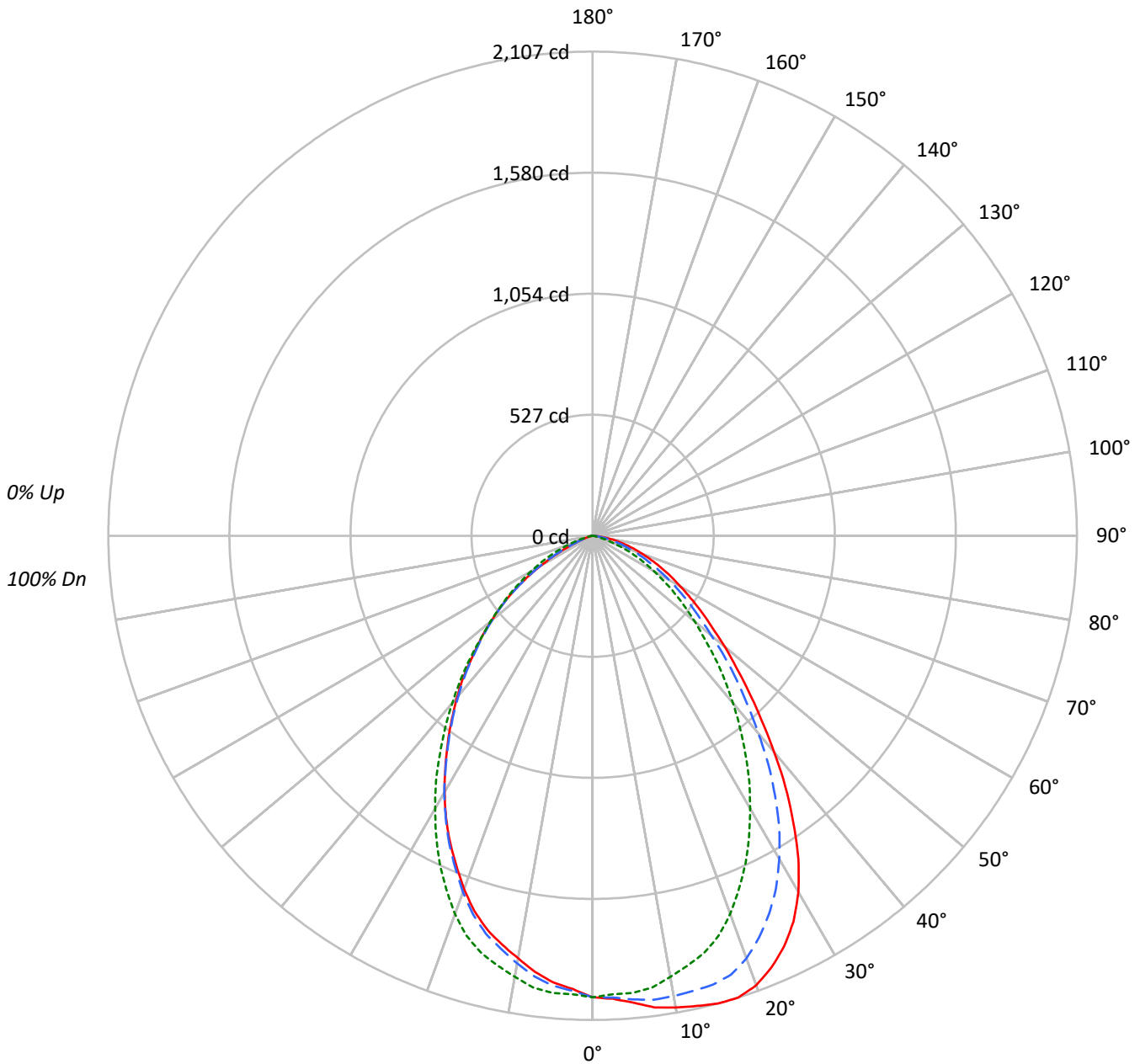
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89	89	89	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78	78	78	78
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69	69	69	69
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61	61	61	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54	54	54	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	44	44	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34	34	34	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	110090	110090	110090
5°	112216	109883	107401
10°	116030	108482	103923
15°	119581	106601	100670
20°	121437	102156	95401
25°	119245	95159	88838
30°	113353	86710	81525
35°	101884	77497	73528
40°	87922	67913	65687
45°	74457	58463	56928
50°	63836	49380	48902
55°	55339	41576	39951
60°	48297	33758	28485
65°	42495	26008	15760
70°	36657	17214	7694
75°	31094	8388	2987
80°	24056	3567	1799
85°	14215	1761	1761



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	5.3
10°-20°	535.9	15.0
20°-30°	754.7	21.1
30°-40°	771.0	21.5
40°-50°	621.7	17.4
50°-60°	417.0	11.7
60°-70°	211.0	5.9
70°-80°	67.5	1.9
80°-90°	10.4	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1480.1	41.4
0°-40°	2251.1	62.9
0°-60°	3289.7	91.9
0°-90°	3578.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3578.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2008	2008	2008	2008	2008	
5°	2039	2025	1997	1966	1952	196
15°	2107	2022	1878	1793	1774	595
25°	1971	1816	1573	1477	1469	903
35°	1522	1384	1158	1093	1099	947
45°	960	884	754	729	734	747
55°	579	514	435	415	418	521
65°	328	271	200	133	122	327
75°	147	104	40	14	14	158
85°	23	11	3	3	3	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2	2008.2
2.5°	2016.6	2013.8	2010.9	2005.3	1996.8	1988.4	1982.7	1977.0	1974.3
5°	2039.2	2033.6	2025.1	2013.8	1996.8	1977.0	1965.8	1954.5	1951.7
7.5°	2070.3	2059.0	2036.4	2010.9	1982.7	1954.5	1934.7	1923.4	1914.9
10°	2084.4	2064.6	2033.6	1991.2	1948.8	1914.9	1889.5	1872.6	1866.9
12.5°	2095.8	2073.1	2028.0	1971.4	1914.9	1869.8	1841.5	1827.3	1821.8
15°	2107.0	2084.4	2022.3	1948.8	1878.3	1824.6	1793.4	1779.3	1773.8
17.5°	2107.0	2076.0	2002.5	1909.3	1824.6	1759.5	1728.5	1714.4	1711.5
20°	2081.6	2047.7	1957.3	1847.1	1751.1	1677.6	1649.4	1641.0	1635.3
22.5°	2033.6	1994.1	1892.4	1768.1	1663.5	1593.0	1562.0	1556.3	1550.6
25°	1971.4	1931.9	1816.1	1683.3	1573.2	1502.6	1477.1	1471.5	1468.7
27.5°	1892.4	1850.0	1728.5	1593.0	1474.4	1406.6	1383.9	1383.9	1381.1
30°	1790.7	1742.7	1624.1	1488.5	1369.8	1307.7	1290.8	1290.8	1287.9
32.5°	1666.4	1618.4	1511.0	1381.1	1268.2	1203.2	1189.1	1194.8	1191.8
35°	1522.4	1482.8	1383.9	1256.9	1158.0	1098.7	1093.1	1098.7	1098.7
37.5°	1378.4	1341.6	1256.9	1146.7	1053.5	999.8	999.8	1008.4	1005.5
40°	1228.6	1200.4	1121.3	1025.3	949.0	912.2	906.7	915.1	917.9
42.5°	1087.4	1064.8	997.0	917.9	850.1	813.4	821.9	827.5	830.3
45°	960.4	937.7	884.0	802.1	754.1	728.7	728.7	737.2	734.3
47.5°	847.3	830.3	776.8	697.6	655.3	643.9	649.6	655.3	655.3
50°	748.5	723.1	672.2	610.0	579.0	564.9	570.5	573.4	573.4
52.5°	655.3	638.3	587.5	531.0	502.8	494.2	494.2	497.1	497.1
55°	579.0	559.3	514.0	457.6	435.0	423.7	415.2	412.3	418.0
57.5°	505.6	488.6	446.2	392.5	367.2	355.9	339.0	333.3	339.0
60°	440.5	426.4	384.1	333.3	307.9	285.3	265.5	254.2	259.8
62.5°	384.1	367.2	324.9	282.4	254.2	228.7	197.7	180.7	189.3
65°	327.6	313.5	271.2	228.7	200.5	169.5	132.7	121.5	121.5
67.5°	276.7	262.6	223.2	186.4	152.5	115.8	81.9	79.1	81.9
70°	228.7	214.6	180.7	144.0	107.4	70.6	48.0	48.0	48.0
72.5°	189.3	172.3	141.3	104.5	67.8	36.7	25.5	28.2	28.2
75°	146.8	132.7	104.5	70.6	39.6	16.9	14.1	14.1	14.1
77.5°	110.1	98.8	73.5	45.2	19.8	5.7	5.7	5.7	5.7
80°	76.2	65.0	48.0	28.2	11.3	5.7	5.7	5.7	5.7
82.5°	45.2	39.6	28.2	14.1	5.7	2.8	2.8	2.8	2.8
85°	22.6	19.8	11.3	5.7	2.8	2.8	2.8	2.8	2.8
87.5°	5.7	5.7	2.8	2.8	0.0	2.8	2.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)